# INSTALLING & OPERATING FSP 3000 TeraFlex™

**2 days technical training**

TeraFlex™ features a 1RU chassis serving 36 bidirectional 100GbE client ports. Total capacity: 3.6Tb/s

## Course Description & Level

A training course on ADVA FSP 3000 TeraFlex™. Specifics on installation. Provisioning, maintenance and troubleshooting with CLI and WebGUI. Introduction to API.
Refreshing OTN Basics; WDM; SNR; OSNR; Q-Factor; PMD; Modulation formats (Constellation Map); Baud Rate & Channel Spacing; Hybrid Modulation; FEC 15% and FEC 27%
Level: Introductory

*Please address us for a separate training class on FSP 3000 Cloud Connect.*

## Audience and Benefits

- The class is aimed for users who need to get familiar with ADVA FSP 3000 TeraFlex™ product
- Hands-on focused learning course
- Certificate of attendance, no exam
- Small class, 8 attendees maximum

| Agenda | THEORY | PRACTICE |
|---|---|---|
| | • Refreshing pre-rec knowledge<br>• System overview<br>• Component overview<br>• Introduction to ADVA licensing<br>• Introduction to REST interface, NETCONF according OpenConfig | • Setting up a system and its components<br>  o 100GbE Client services<br>  o Optional: MicroMux (10x10GbE) Client services<br>  o 400GbE Client plugs in a later release<br>• CLI for provisioning<br>• WebGUI<br>• Maintenance<br>• Troubleshooting |

## Pre-requisites

Basic knowledge of WDM; SNR; OSNR; Q-Factor; PMD; Beneficial: Modulation formats (Constellation Map); Baud Rate & Channel Spacing; Hybrid Modulation and TCP/IP protocols

## Contact

training@adva.com

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| **Day 1**<br>**(9 am – 5 pm)** | **TeraFlex™ Introduction**<br>**Installation, Commissioning, Provisioning** |
|---|---|
| **Theory** | Refreshing OTN Basics; WDM; SNR; OSNR; Q-Factor; PMD;<br>In Detail: Modulation formats (Constellation Map); Baud Rate & Channel Spacing; Hybrid Modulation<br><br>Product Introduction |
| **Lab exercises** | Setting up a working system step-by-step<br>Basic operation via CLI only<br>Management Modules (T-ECM)<br>o DCN Setup<br>ADVA Licensing (for all Client ports required)<br>Introducing TeraFlex Sleds<br>o Configuring Services<br>o 100GbE Client services<br>o Optional: 10x10GbE Client services (OTU4)<br>o 400GbE Client plugs (in a later release)<br>o Modulation formats on network side<br>o e.g. 32QAM, 64QAM, …<br>o Configuring Connections<br>o Client to Network |
| **Day 2**<br>**(9 am – 5 pm)** | **TeraFlex™ - Proceeding from Day 1**<br>**Maintenance and Troubleshooting** |
| **Theory** | Retake of day 1 |
| **Lab exercises** | TeraFlex™ Sleds (proceed)<br>o Modulation formats on network side<br>o Selected examples of Hybrid Modulation<br><br>Maintenance<br>o Replacing modules<br>o Database Backup/Restore<br>o Software Upgrade<br><br>Troubleshooting<br>o Performance Monitoring (PM) Reading<br>o OSNR Measurement |